UNIQUE IDENTIFICATION (UID)

Unique Identification (UID) of Tangible Items (UII)

LeAntha Sumpter, Program Manager for Item UID

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DoD Vision for Item Marking (UID)

- **To create a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on <u>international standards and commercial item markings</u>.**

- **Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.**
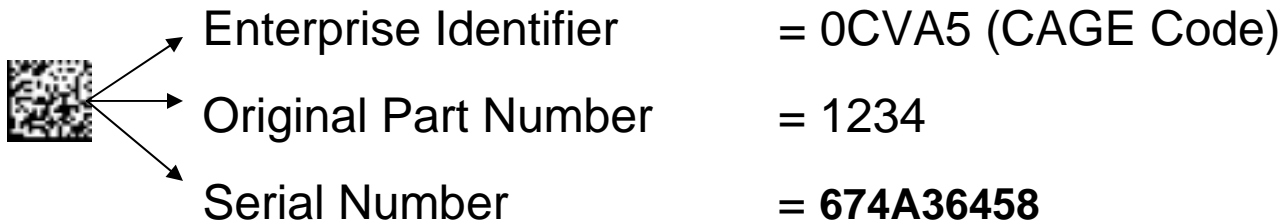
**Driven by DOD Logistics for Total Asset Visibility
And by Comptroller for Property Accountability**

UID: How is it Constructed?

The UID shall be derived from its discrete component data elements – the UID is not required to be marked on the item as a separate data element
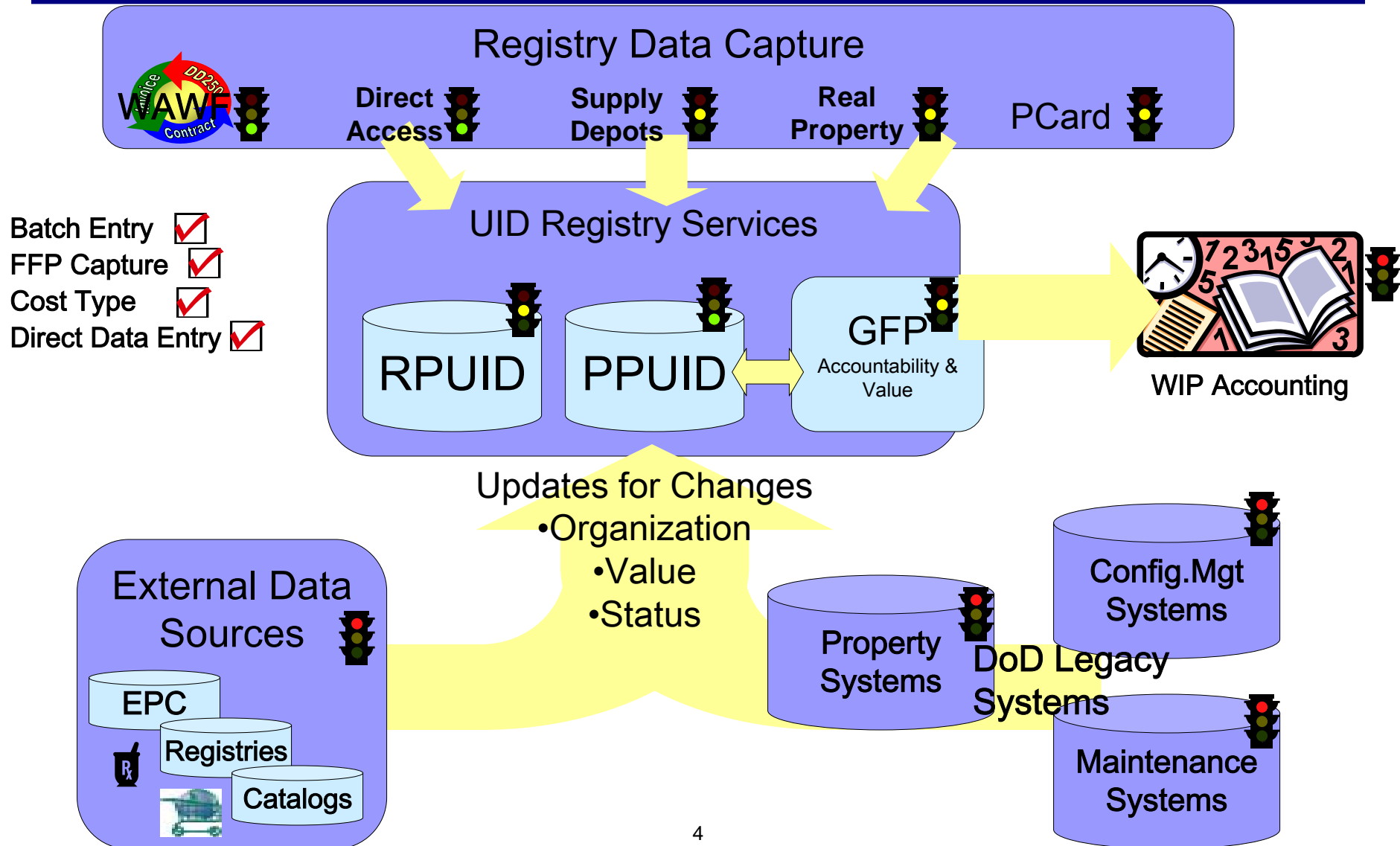
From the Data Matrix:

Enterprise Identifier	= 0CVA5 (CAGE Code)
Original Part Number	= 1234
Serial Number	= **674A36458**

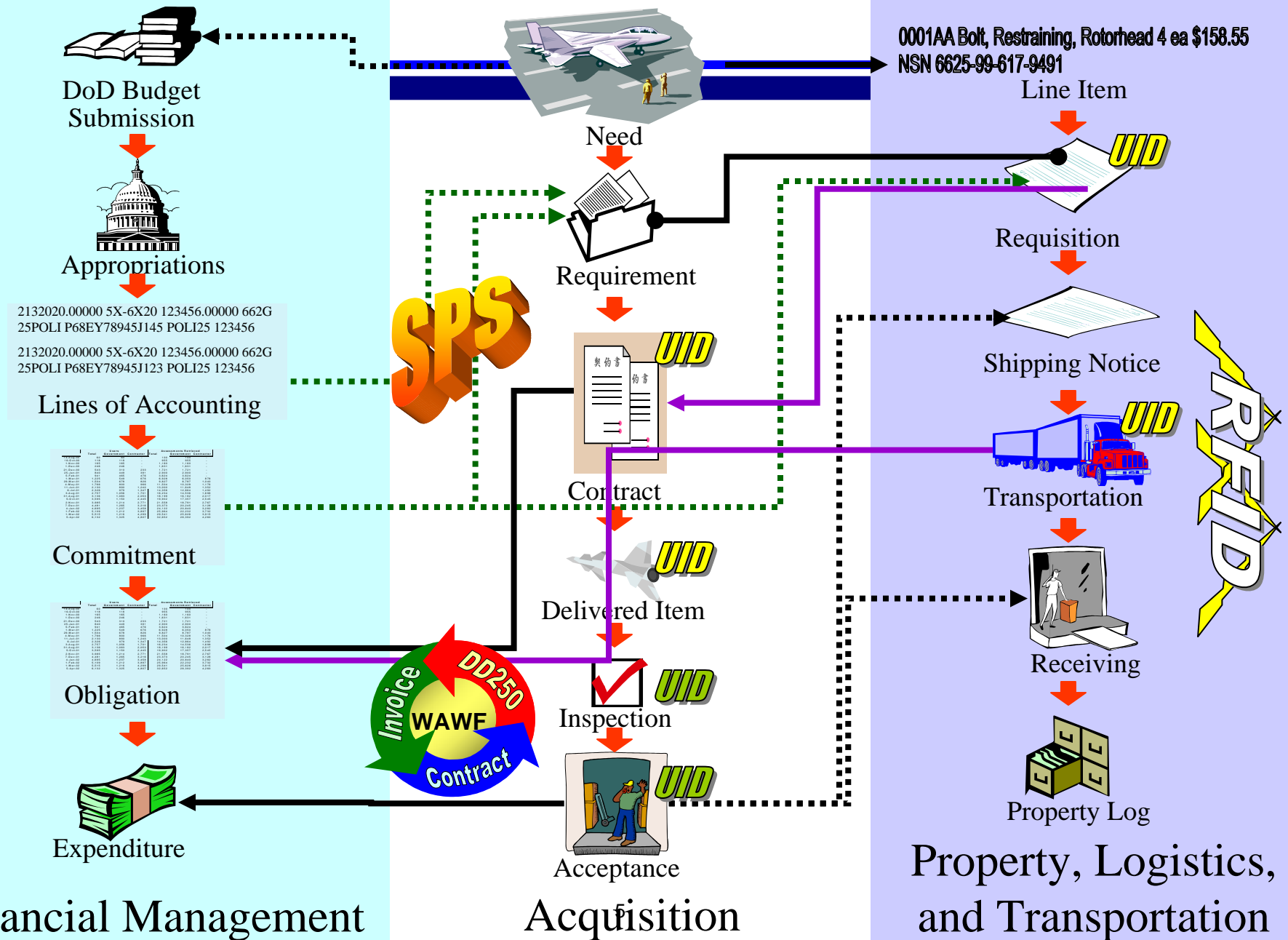The UID can be derived using the IAC for CAGE, which is "D":

UID Construct 1	UID Construct 2
If the Serial Number is Unique within the Enterprise Identifier	*If the Serial Number is Not Unique within the Enterprise Identifier but is Unique within the Part Number*
D0CVA5674A36458	**D0CVA51234674A36458**

Property UID Systems Environment "To Be"

Registry Data Capture

WAWF   Direct Access   Supply Depots   Real Property   PCard

Batch Entry ✓
FFP Capture ✓
Cost Type ✓
Direct Data Entry ✓

UID Registry Services

RPUID   PPUID   GFP Accountability & Value

WIP Accounting

Updates for Changes
• Organization
• Value
• Status

External Data Sources

EPC
Registries
Catalogs

Property Systems

DoD Legacy Systems

Config.Mgt Systems

Maintenance Systems

Enterprise UID Digital Data Flow Potential

Financial Management
- DoD Budget Submission
- Appropriations
- 2132020.00000 5X-6X20 123456.00000 662G 25POLI P68EY78945J145 POLI25 123456
- 2132020.00000 5X-6X20 123456.00000 662G 25POLI P68EY78945J123 POLI25 123456
- Lines of Accounting
- Commitment
- Obligation
- Expenditure

Acquisition
- Need
- Requirement
- SPS
- Contract — UID
- Delivered Item — UID
- Inspection — UID
- WAWF (Invoice, DD250, Contract)
- Acceptance — UID

Property, Logistics, and Transportation
- 0001AA Bolt, Restraining, Rotorhead 4 ea $158.55 NSN 6625-99-617-9491
- Line Item — UID
- Requisition
- Shipping Notice
- Transportation — UID — RFID
- Receiving
- Property Log

UID-RFID Database Data Relationship

End Item Database Data (15)
- ♦ UID (Concatenated)
- ♦ Descriptive Data
  - – UID Data Elements (3)
  - – Issuing Agency Code
  - – UID Type
  - – Item Description
  - – Unit of measure
- ♦ Acquisition Data
  - – Contractor
  - – Contract Number
  - – CLIN/SLIN/ELIN
  - – Price
  - – Acceptance Code (identifies acceptor)
  - – Acceptance Date
  - – Ship to code

Embedded Items of End Items (10)
- ♦ UID (Concatenated)
- ♦ Descriptive Data
  - – UID Data Elements (5)
  - – Item Description
  - – Unit of measure
- ♦ Parent UID as of delivery date
- ♦ GFP flag

RFID Data at the Pallet Level
- ♦ Pallet EPC
- ♦ Shipping Data

RFID Data at the Case Level
- ♦ Pallet EPC
- ♦ Case EPC

RFID Data at the Item Package Level
- ♦ Case EPC
- ♦ Item Package EPC

What We Have Learned

- Need for common approach to entity identification across DoD

- Cannot get clean audit or asset visibility without standardizing data and processes

- DoD has countless property management systems ranging from paper to automated systems, spanning accountability, maintenance, disposal, inventory, and distribution

- Currently personal property handoffs occur inconsistently (probably at least 75 different processes)

- Target three receipt and acceptance approaches – Will take five years to re-engineer all; deployment undetermined
  - Step one – DoD and Business Partners (Include GFP Registry)
  - Step two – Internal DoD
  - Step three – External Federal and Foreign
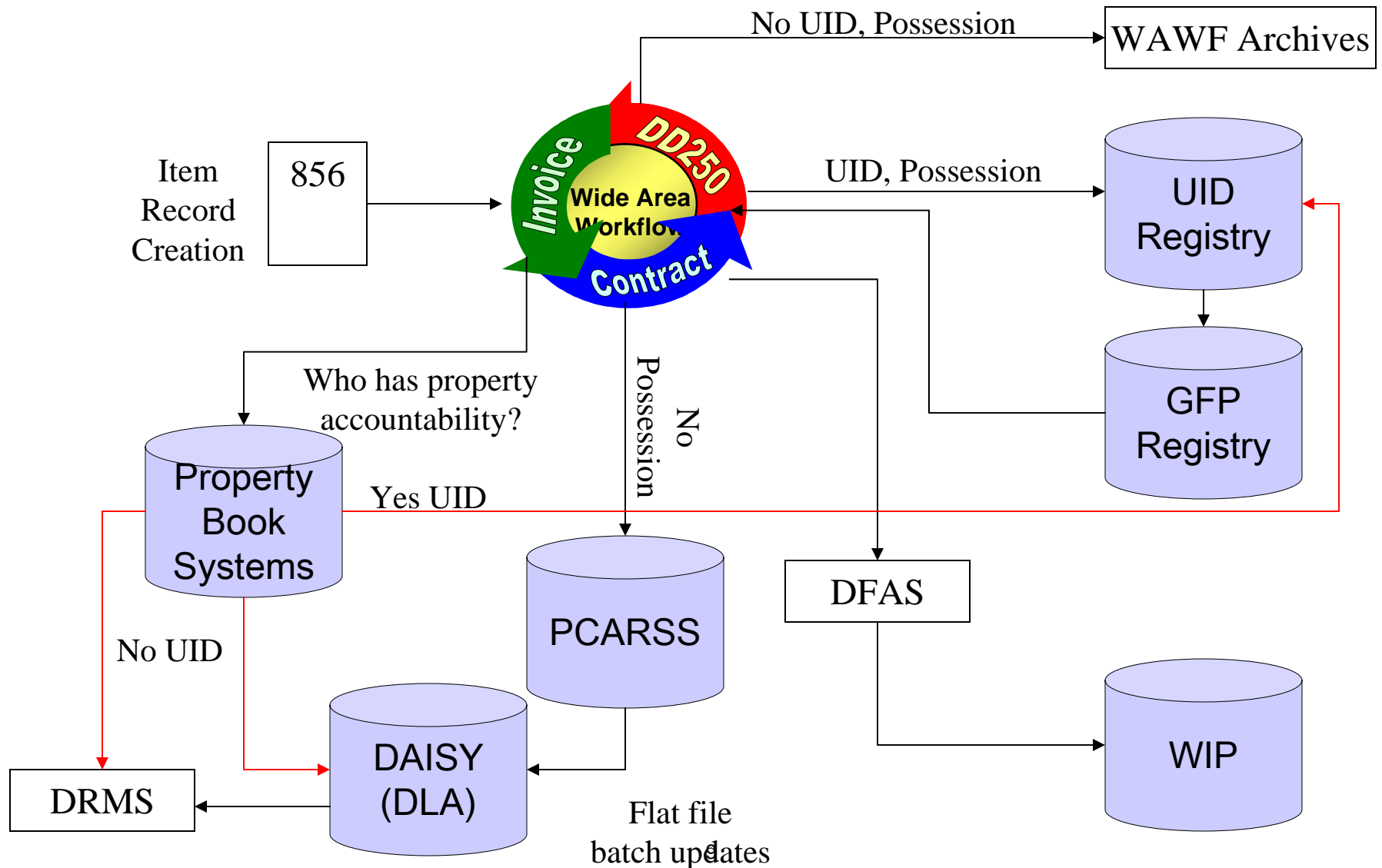
- Re-engineering effort will be directed by AT&L

Reengineering Property Transfers

	Acceptance Point	Phase I Present-May 05	Phase II Oct 04-Jan 06	Phase III Oct 05-Sep 07	Phase IV Oct 06-Sep 08
External – Internal acceptance	Source and Destination	Dependent on completion of WAWF deployment			
External – Internal receipt and acceptance	Destination	Dependent on DSS-WAWF Integration			
Internal – External receipt and acceptance	Destination		GFP capture at WAWF or contractor		
Internal – Internal receipt	Destination			Integration w/Property Records	
Internal – Internal acceptance	Source and Destination				Captures & reconciles accountability transfer
External – Internal acceptance (Real Property)	On site				Integrating acquisition & real property records

Portal for Property Transfers

DoD Vision for UID

DoD, its coalition partners, and industry efficiently and effectively manage people, property, and intangible assets using globally unique identification
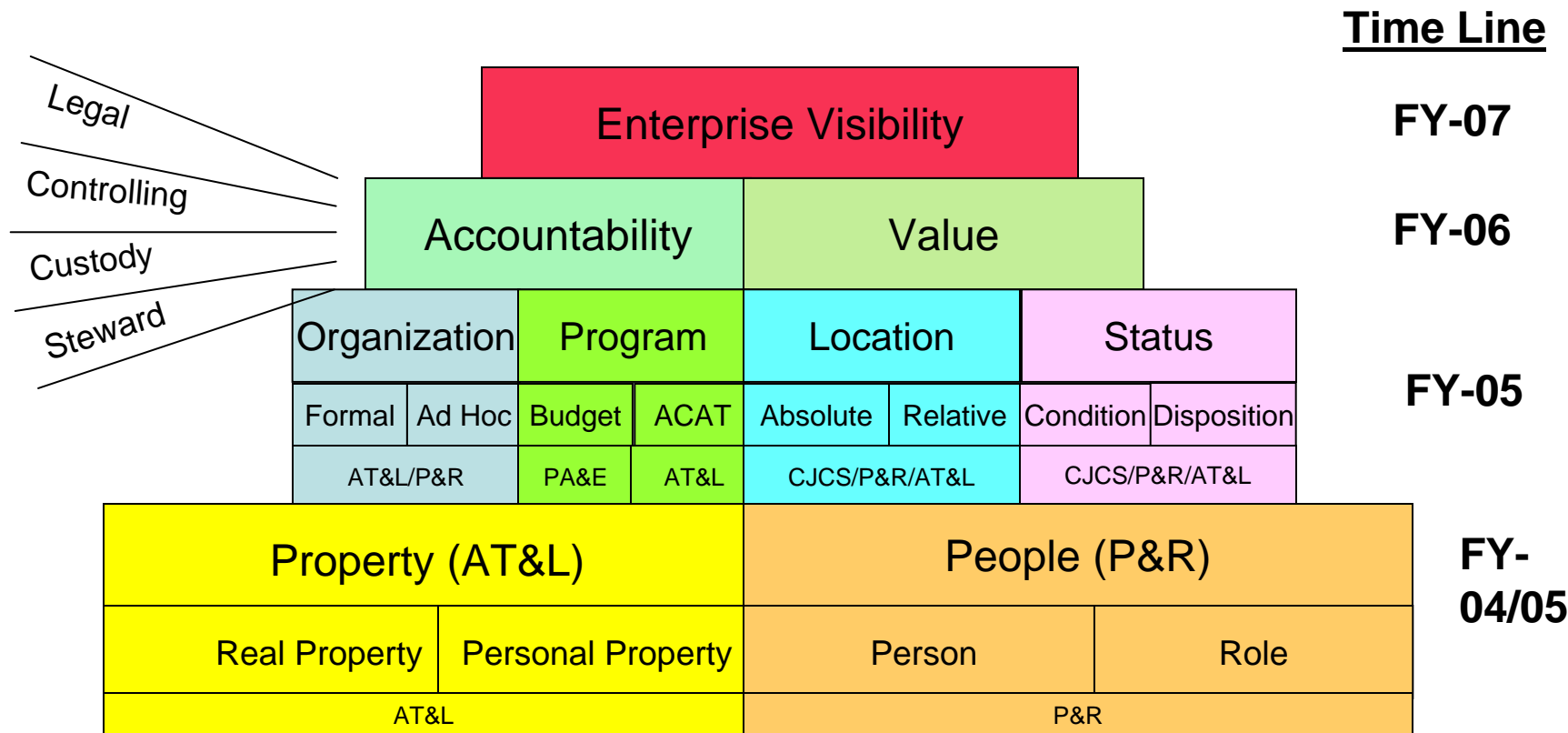
UID Goals

✔ *Ubiquitous and Globally Unique Identifiers*

✔ *Lower Life Cycle Management Costs*

✔ *Improve Operational Readiness*

✔ *Capitalize on Leading Practices*

✔ *Reliable Accounting and Visibility*

✔ *Reduce Burden on Workforce*

Data Roadmap

Legal

Controlling

Custody

Steward

Enterprise Visibility			**FY-07**
Accountability		**Value**	**FY-06**
Organization	Program	Location	Status
Formal / Ad Hoc	Budget / ACAT	Absolute / Relative	Condition / Disposition
AT&L/P&R	PA&E / AT&L	CJCS/P&R/AT&L	CJCS/P&R/AT&L

FY-05

Property (AT&L)	**People (P&R)**
Real Property / Personal Property	Person / Role
AT&L	P&R

FY-04/05

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UID: What makes it so special?

UID…

➤ **Provides** *"The Key"* **to discovery and correlation of item, real property and human resource information so**

 ✓ DoD can **consistently locate, control and value assets** anywhere and anytime

➤ Is an applied *leading industrial practice* interconnecting people, item, real property (places), organizations, force structure, programs, etc.

➤ Enables *globally accessible and secure* enterprise data

➤ Registries enable *creation of UID mission critical services* to

 ✓ Translate legacy data for existing DoD systems
 ✓ Enable access for operational support
 ✓ Enable joint paperless management

UID Registry Concept

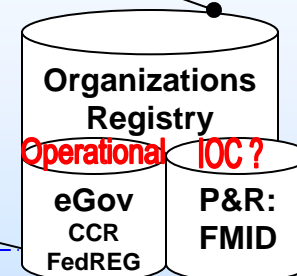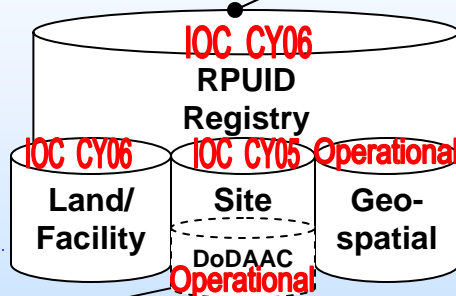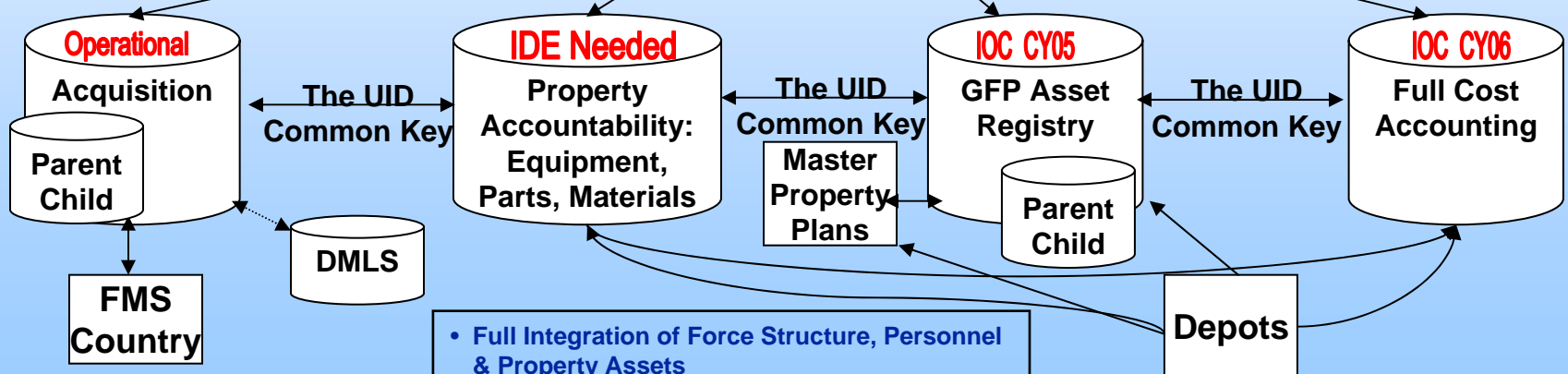## Rules

NII to incorporate UID in data architecture in 2005

UID Registry

UID "Google"
IOC CY05

Keys

People Registry — Operational

RPUID Registry — IOC CY06
- **Land/ Facility** — IOC CY06
- **Site** — IOC CY05
  - DoDAAC — Operational
- **Geo-spatial** — Operational

Personal Property Registry

Organizations Registry — Operational
- **eGov** CCR FedREG
- **P&R: FMID** — IOC ?

Program Registry

Context

Acquisition — Operational
- **Parent Child**

FMS Country

DMLS

The UID Common Key

Property Accountability: Equipment, Parts, Materials — IDE Needed

The UID Common Key

Master Property Plans

GFP Asset Registry — IOC CY05
- **Parent Child**

The UID Common Key

Full Cost Accounting — IOC CY06

Depots

- • Full Integration of Force Structure, Personnel & Property Assets
- • Life Cycle Cost Improvements
- • RPUID Includes Segmentation of Linear Assets

CY09 -10 →

UID Data Element Summary for Legacy Items
January 2005

	Descriptive data
🟩	UID
	Issuing Agency Code
	Enterprise Identifier
	Original Part Number
	Serial Number
🟩	UID Type
🟥	Description
🟩	Batch/Lot
	Current Part Number
	Current Part Number Effective Date
	Manufacturer Identifier
🟩	Parent UID
	ContractInfo
🟩	Contract Number
	Prime Contractor Identifier
🟥	Acceptance Code
🟩	Acceptance Date
	Acquisition Cost
	CLIN/SLIN/ELIN
	Foreign Currency Code
🟥	Ship-to Code
🟩	Unit of Measure

	GFP
🟩	CAGE
	Contract Number
	DoDAAC
	DUNS
	Received Date
	Sent Date
	Status Flag
	Mark
🟩	Contents
	Effective Date
	AddedOrRemoved
	Marker Code
	Marker Identifier
	Medium
	Value
	Open Items
🟥	Custodian or Steward
	Location UID
	Program UID
	Item Status
	Current Value
	Alias (system unique)

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What's the UID punch line?

- Data should be system agnostic

- Data should be functionally agnostic

- Emphasize XML and EDI; migrate from MILS

- People, Item and Real Property data schemas are identified

- Program, Organization and Location UIDs are TBD

- Systems must conform to key data and transaction hub requirements

- Data transfers should use existing translation capabilities to the maximum extent possible

- DoD needs a vision for enabling UID data repositories